

**PATENT APPLICATION**

In re the Application of

Masami NIIMI et al.

Application No.: 09/950,057

Filed: September 12, 2001

Docket No.: 111315

For: METHOD OF MANUFACTURING YOKE OF ROTARY ELECTRIC MACHINE

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MARCH 25 2002  
TECHNOLOGY CENTER R3700

**SUBMISSION OF POWER OF ATTORNEY BY ASSIGNEE**

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Enclosed is a Power of Attorney by Assignee to be made of record in the above-identified application.

In the event of any nonpayment or improper payment of a required fee, the Director is authorized to charge or to credit OLIFF & BERRIDGE, PLC Deposit Account No. 15-0461 as required to correct the error.

Respectfully submitted,

James A. Oliff  
Registration No. 27,075

Thomas J. Pardini  
Registration No. 30,411

JAO:TJP/kaw

Date: February 15, 2002

**OLIFF & BERRIDGE, PLC**  
P.O. Box 19928  
Alexandria, Virginia 22320  
Telephone: (703) 836-6400

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FEB 20 2002

POWER OF ATTORNEY BY ASSIGNEE

TECHNOLOGY CENTER 2300

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Denso Corporation is the Assignee of the entire right, title and interest in the patent applications identified in the attached Appendix A by virtue of Assignments recorded at the locations identified in the Appendix. Additionally, Denso Corporation is the Assignee of the entire right, title and interest in the following seven patent applications for which Assignments have been filed, but the original Assignments, indicating the dates and reel and frame numbers of recordation, have not yet been returned:

<u>U.S. Patent Application No.</u>	<u>Filed</u>	<u>Inventors</u>
09/879,035	June 13, 2001	Hironao YAMAGUCHI
09/885,163	June 21, 2001	Keiji TAKAHASHI et al.
09/912,301	July 26, 2001	Nakato MURATA et al.
09/918,826	August 1, 2001	Masami NIIMI et al.
09/922,691	August 7, 2001	Tadatoshi ASADA
09/903,494	July 13, 2001	Naoto IWATA et al.
09/873,410	June 5, 2001	Shigenobu NAKAMURA

Copies of the Recordation Cover Sheets and executed Assignments as filed for these applications are attached hereto.

The undersigned is authorized to act on behalf of Denso Corporation; has reviewed the evidentiary documents in the chain of title; and certifies that to the best of the Assignee's knowledge and belief, title is in the Assignee.

Denso Corporation hereby revokes all prior powers of attorney and appoints the following as attorneys of record with full power of substitution and revocation to prosecute this

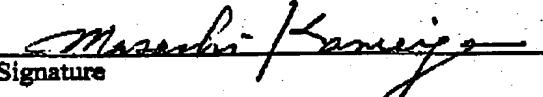
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application and all continuations and divisions thereof; and to transact all business in the Patent and Trademark Office:

James A. Oliff, Registration No. 27,075;  
William P. Berridge, Registration No. 30,024;  
Kirk M. Hudson, Registration No. 27,562;  
Thomas J. Pardini, Registration No. 30,411;  
Edward P. Walker, Registration No. 31,450;  
Robert A. Miller, Registration No. 32,771;  
Mario A. Costantino, Registration No. 33,565;  
Stephen J. Roe, Registration No. 34,463;  
Joel S. Armstrong, Registration No. 36,430;  
Christopher W. Brown, Registration No. 38,025;  
Richard E. Rice, Registration No. 31,560; and  
Paul Tsou, Registration No. 37,956.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION  
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA,  
VIRGINIA 22320. TELEPHONE: (703) 836-6400.

February 14, 2002  
Date

  
Signature

Typed Name: Masashi Kamiya

Title: General Manager



## APPENDIX A

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Reel/Frame  
No.

<u>U.S. Patent</u> <u>Application Serial</u>	<u>No.</u>	<u>Filed</u>	<u>Oliff &amp; Berridge,</u> <u>PLC Docket No.</u>	<u>Reel/Frame</u> <u>No.</u>
09/538,983		March 30, 2000	111267	010661/0135
09/758,169		January 12, 2001	111277	011460/0868
09/777,699		February 7, 2001	111281	011540/0141
09/788,426		February 21, 2001	111282	011558/0650
09/837,382.		April 19, 2001	111287	011706/0632
09/849,274		May 7, 2001	111290	011784/0710
09/878,247		June 12, 2001	111291	011900/0317
09/883,204		June 19, 2001	111293	011917/0398
09/883,205		June 19, 2001	111294	011916/0601
09/899,054		July 6, 2001	111297	011965/0421
09/935,695		August 24, 2001	111307	012120/0029
09/940,648		August 29, 2001	111310	012126/0801
09/940,797		August 29, 2001	111311	012126/0951
09/948,581		September 10, 2001	111313	012163/0692
09/949,753		September 12, 2001	111314	012163/0229
09/950,057		September 12, 2001	111315	012201/0554
09/808,364		March 15, 2001	111316	011612/0898
09/935,696		August 24, 2001	111318	012120/0318
09/599,422		June 22, 2000	111327	010896/0961
09/803,979		March 13, 2001	111332	011603/0287
09/960,735		September 24, 2001	111334	012206/0462

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<u>U.S. Patent</u>				
<u>Application Serial</u>	<u>No.</u>	<u>Filed</u>	<u>Oliff &amp; Berridge,</u> <u>PLC Docket No.</u>	<u>Reel/Frame</u> <u>No.</u>
09/521,604		March 9, 2000	111336	010631/0795
09/574,451		May 19, 2000	111337	010816/0493
09/891,349		June 27, 2001	111344	012241/0693
09/773,262		February 1, 2001	111348	012238/0216

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RECORDATION FORM/COVER SHEET

PATENT APPLICATIONS &amp; PATENTS ONLY

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:

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1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Hironao YAMAGUCHI

3.

5.

7.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

<input checked="" type="checkbox"/> ASSIGNMENT OF	<input checked="" type="checkbox"/> WHOLE	<input type="checkbox"/> PART INTEREST
<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> FACSIMILE/PHOTOCOPY	
<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE: June 1, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) June 1, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?  YES  NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S) M#	1 <sup>st</sup> INVENTOR if not in item 1
-----------------------------------------------	----	----------------------------------------------	-----------------------	----------------------------------------------

NEW APPLICATION	281387			
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5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP  
Intellectual Property Group  
1100 New York Avenue, NW  
Ninth Floor  
Washington, DC 20005-3918

6. NUMBER INVOLVED:  
APPLNS 1 + PATS 0 = TOTAL 17. AMOUNT OF FEE ENCLOSED: (Code 581)  
ABOVE TOTAL x \$40 = \$405.5 ATTY DKT:  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

P 281387	30954	UNDER ORDER NO	30954	281387
MATTER NO.	CLIENT REF.	dup. sheet not required	CLIENT NO.	MATTER NO.

9.

Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/mjb

TEL: (202) 861-3014

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Date: June 13, 2001

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M#

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USA Patent Appln.  
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**ASSIGNMENT  
OF NONPROVISIONAL APPLICATION**

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Hironao YAMAGUCHI (3) (5)	(2) (4) <input type="checkbox"/> x box if continued on page 2
-------------------------------------	-------------------------------------	---------------------------------------------------------------------

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)	DENSO CORPORATION 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan
------------------------------------------------------	-------------------------------------------------------------------------------

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION	TRANSFORMER DEVICE, HIGH-VOLTAGE GENERATING APPARATUS HAVING THE SAME, AND LIGHTING SYSTEM HAVING THEM
-----------------------	-----------------------------------------------------------------------------------------------------------

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (Complete line A, B and/or C)	(A) <input checked="" type="checkbox"/> even date herewith (B) <input type="checkbox"/> on _____ (C) <input type="checkbox"/> in U.S. Appln. No. _____ / _____ filed _____
----------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	INVENTORS	DATE SIGNED	WITNESSES
1):	Hironao Yamaguchi	June 1, 2001	Yoshitaka Sato
Name:	Hironao YAMAGUCHI		
2)			
Name:			
3)			
Name:			
4)			
Name:			
5)			
Name:			

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## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Keiji TAKAHASHI  
3. Makoto TANIGUCHI  
5.  
7.

2. Toshinori MARUYAMA

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4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1 Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO

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<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE: May 31, 2001

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4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?  YES  NO

A. PAT. APP. NO.(S) series code/serial no.	M#	INVENTOR if not in item 1	B. PATENT NO(S)	M#	1st INVENTOR if not in item 1
-----------------------------------------------	----	------------------------------	-----------------	----	----------------------------------

NEW APPLICATION 281174

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:Pillsbury Winthrop LLP  
Intellectual Property Group  
1600 Tysons Boulevard  
McLean, VA 22102

## 5.5 ATTY DKT:

P 281174 56656-US-SuS/sm

MATTER NO. CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975  
UNDER ORDER NO 30954 281174

9.

Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/mjb

TEL: (703) 905-2020

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USA Patent Appln.  
Sole or Joint

For Inventions made outside USA  
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Atty. Dkt. PW 56656-U5  
M#       

Client Ref.       

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OF NONPROVISIONAL APPLICATION**

**NONPROVISIONAL**

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1)	Keiji TAKAHASHI	(2)	Toshinori MARUYAMA
(3)	Makoto TANIGUCHI	(4)	
(5)			<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

**DENSO CORPORATION**  
1-1 Showa-cho, Kariya-city  
Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF  
INVENTION

**VOLTAGE REGULATOR OF VEHICLE AC GENERATOR**

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A)  even date herewith  
(Complete) (B)  on  
line A, B and/or C (C)  in U.S. Appln. No.        / filed       

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

**INVENTORS**

1): Keiji TAKAHASHI

Name: Keiji TAKAHASHI

2) Toshinori Maruyama

Name: Toshinori MARUYAMA

3) Makoto Taniguchi

Name: Makoto TANIGUCHI

**DATE SIGNED**

May/31/2001

**WITNESSES**

Hiroshi Ishida

May/31/2001

Hiroshi Ishida

May/31/2001

Hiroshi Ishida

BOX ASSIGNMENTS

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## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Nakato MURATA  
3. Tsutomu SHIGA  
5.  
7.2. Yoshiki TAN  
4.  
6.  
8.ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

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 CHANGE OF NAME  VERIFIED TRANSLATION  
 SECURITY  MERGER  OTHER:

EXEC. DATE: (1 & 2) July 12, 2001 and  
(3) July 13, 2001EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND  
ASSIGNMENT DIFFER SEE ATTY!) (1 & 2) July 12, 2001 and (3) July 13, 20014.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?  YES  NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
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NEW APPLICATION	0282704				
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5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:	6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL
--------------------------------------------------------------------------------------------	--------------------------------------------------

Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard  McLean, VA 22102	7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40
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5.5 ATTY DKT:	8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO
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P 0282704	57062-US-SuS/mk	030954	0282704
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MATTER NO.	CLIENT REF.	dup. sheet not required	CLIENT NO.	MATTER NO.
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9.	10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	2
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Signature	
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Attorney: Paul T. Bowen	Date: July 26, 2001
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Reg. No. 38009	
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Atty/Sec: PTB/tel	TEL: (703) 905-2020	FAX: (703) 905-2500
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McLean VA 22102

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Client Ref.

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ASSIGNMENT  
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1) Nakato Murata  
(3) Tsutomu Shiga  
(5)

(2) Yoshiki Tan  
(4)  
 x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

DENSO CORPORATION  
1-1, SHOWA-CHO, KARIYA-CITY, AICHI-PREF., 448-8661 JAPAN

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF  
INVENTION

BRUSH-LESS ROTARY ELECTRIC MACHINE HAVING STATOR COOLING ARRANGEMENT

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A)  even date herewith  
(Complete) (B)  on \_\_\_\_\_  
line A, B and/or C (C)  in U.S. Appln. No. \_\_\_\_\_ / \_\_\_\_\_ filed \_\_\_\_\_

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1): Name: Nakato Murata  
2) Name: Yoshiki Tan  
3) Name: Tsutomu Shiga  
4) Name:  
5) Name:

DATE SIGNED

July 12, 2001

July 12, 2001

July 13, 2001

WITNESSES

Hiroshi Shida

Hiroshi Shida

Hiroshi Shida

BOX ASSIGNMENTS

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## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Masami NIIMI  
3. Masahiro KATOH  
5.  
7.

2. Hideki ICHIKAWA  
4.  
6.  
8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

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ASSIGNMENT OF  WHOLE  PART INTEREST  
 ORIGINAL  FACSIMILE/PHOTOCOPY  
 CHANGE OF NAME  VERIFIED TRANSLATION  
 SECURITY  MERGER  OTHER:

EXEC. DATE:	(1)	June 5, 2001
	(2)	June 11, 2001
	(3)	June 6, 2001

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4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?  YES  NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
-----------------------------------------------	----	----------------------------------------------	-----------------	----	----------------------------------------------

NEW APPLICATION 0281512

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:

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Intellectual Property Group  
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McLean, VA 22102

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6. NUMBER INVOLVED:  
APPLNS 1 + PATS 0 = TOTAL 17. AMOUNT OF FEE ENCLOSED: (Code 581)  
ABOVE TOTAL x \$40 = \$408. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO 030954 0281512

dup. sheet not required CLIENT NO. MATTER NO.

9.



Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

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Date: August 1, 2001

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Washington, DC 20005-3918

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Atty. Dkt PW

57168-US-  
MRB/nh

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**NONPROVISIONAL**

**ASSIGNMENT  
OF NONPROVISIONAL APPLICATION**

## NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Masami NIIMI (3) Masahiro KATOH (5)	(2) Hideki ICHIKAWA (4) <input type="checkbox"/> x box if continued on page 2
-------------------------------------	-----------------------------------------------	-------------------------------------------------------------------------------------

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

**INSERT** **DENSO CORPORATION**  
**NAME(S) OF** **1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan**  
**ASSIGNEE(S)**  
**& ADDRESS(ES)**

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

**TITLE OF  
INVENTION** METHOD OF FABRICATING BRUSHES

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A)  even date herewith  
(Complete (B)  on \_\_\_\_\_  
line A, B and/or C) (C)  in U.S. Appn. No. / filed \_\_\_\_\_

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE:

hereinafter act on behalf of said ASSIGNEE;  
AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

**NOTE → →** The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	<u>INVENTORS</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
1): Name:	Masami NIIMI	June 5, 2001	Shinji Usami
2) Name:	Hideki ICHIKAWA	June 11, 2001	Kenji Ogishima
3) Name:	Masahiro KATOH	June 6, 2001	Shinji Usami
4) Name:			
5) Name:			

BOX ASSIGNMENTS

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TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:

SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Tadatoshi ASADA

3.

5.

7.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

<input checked="" type="checkbox"/> ASSIGNMENT OF	<input checked="" type="checkbox"/> WHOLE	<input type="checkbox"/> PART INTEREST
<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> FACSIMILE/PHOTOCOPY	
<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE: July 2, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) July 2, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?  YES  NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
NEW APPLICATION	0282680				

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:  Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102	6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL  7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40
5.5 ATTY DKT:  P 0282680	8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 030954 0282680 MATTER NO. CLIENT REF. dup. sheet not required CLIENT NO. MATTER NO.

9.



Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

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Date: August 7, 2001

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57174-US-  
SuS/nh

M#

Client Ref.

USA Patent Appln.  
Sole or Joint

NONPROVISIONAL

ASSIGNMENT

NONPROVISIONAL

OF NONPROVISIONAL APPLICATION

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT	(1) Tadatoshi ASADA	(2)
NAME(S) OF	(3)	(4)
INVENTOR(S)	(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT	DENSO CORPORATION
NAME(S) OF	1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan
ASSIGNEE(S)	
& ADDRESS(ES)	

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF  
INVENTION

VOLTAGE REGULATOR OF VEHICLE AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A)  even date herewith  
(Complete) (B)  on  
line A, B and/or C (C)  in U.S. Appln. No. / filed /

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE's full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

1):	INVENTORS Tadatoshi Asada	DATE SIGNED July 2, 2001	WITNESSES Koshi Ishida
Name:	Tadatoshi ASADA		
2)			
Name:			
3)			
Name:			
4)			
Name:			
5)			
Name:			

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TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:  
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Naoto IWATA  
3. Masahiko NATUME  
5. Nobuhiko NAGAI  
7. Kunihiro KODAMA2. Masayoshi FUJITA  
4. Yoshiaki MIZUNO  
6. Mitsutoshi MIYAZAKI  
8. Toshiji KONDOW

TECHNOLOGY CENTER 2800

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Denso Corporation

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

<input checked="" type="checkbox"/> ASSIGNMENT OF	<input checked="" type="checkbox"/> WHOLE	<input type="checkbox"/> PART INTEREST
<input type="checkbox"/> ORIGINAL	<input checked="" type="checkbox"/> FACSIMILE/PHOTOCOPY	
<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input checked="" type="checkbox"/> OTHER:	

EXEC. DATE: 27 and 28 May 1998

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?  YES  NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
Div. of 09/092,646	281099				

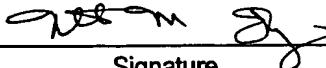
5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:Pillsbury Winthrop LLP  
Intellectual Property Group  
1600 Tysons Boulevard

McLean, VA 22102

5.5 ATTY DKT:

P 281099 U3-9812-YK-B  
MATTER NO. CLIENT REF. dup. sheet not required CLIENT NO. MATTER NO.6. NUMBER INVOLVED:  
APPLNS 1 + PATS 0 = TOTAL 17. AMOUNT OF FEE ENCLOSED: (Code 581)  
ABOVE TOTAL x \$40 = \$408. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975  
UNDER ORDER NO 60388 281099

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Signature

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Attorney: Kenneth M. Fagin

Reg. No. 37,615

Atty/Sec: KMF/mll

TEL: (703) 905-2066

Date: July 13, 2001

FAX: (703) 905-2500

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 Washington, D.C. 20005-3918

For Inventions made outside USA  
 executed with or after application

Atty. Dkt.

MR

Client Ref.

USA Patent Appln.  
 Sole or Joint

NONPROVISIONAL

NONPROVISIONAL

## ASSIGNMENT OF NONPROVISIONAL APPLICATION

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
 NAME(S) OF  
 INVENTOR(S)

(1) Naoto IWATA	(4) Yoshiaki MIZUNO
(2) Masayoshi FUJITA	(5) Nobuhiko NAGAI
(3) Masahiko NATUME	[X] x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
 NAME(S) OF  
 ASSIGNEE(S)  
 & ADDRESS(ES)

DENSO CORPORATION

of 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF  
 INVENTION

IMPROVED METHOD FOR MACHINING SLOTS IN MOLDING DIE

for which the undersigned executed an application for Letters Patent of the United States of America:

NOTE -->  
 (Complete  
 line A, B and/or C)

(A)  even date herewith  
 (B)  on May 27 and 28, 1998  
 (C)  in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE:

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE --> The undersigned hereby authorize(s) Cushman Darby & Cushman Intellectual Property Group of Pillsbury Madison & Sutro, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

### INVENTOR(S)

### DATE SIGNED

### WITNESSES

1) Naoto Iwata  
 Name: Naoto Iwata

2) Masayoshi Fujita  
 Name: Masayoshi Fujita

3) Masahiko Natume  
 Name: Masahiko Natume

4) Yoshiaki Mizuno  
 Name: Yoshiaki Mizuno

5) Nobuhiko Nagai  
 Name: Nobuhiko Nagai

27-May-98

Junichi Ito

28-May-98

Keiji Sakai

28-May-98

Keiji Sakai

28-May-98

Junichi Ito

27-May-98

Yoshitaka Kuroda

IF ADDITIONAL INVENTORS, check box  and continue on page 2.

# ASSIGNMENT

(Continued from page 1)

## LISTING OF ADDITIONAL INVENTORS

INSERT  
NAME(S) OF  
INVENTOR(S)

(6)	Mitsutoshi MIYAZAKI	(11)
(7)	Kunihiro KODAMA	(12)
(8)	Toshiji KONDOW	(13)
(9)		(14)
(10)		(15)

## SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

	<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
6)	<u>Mitsutoshi Miyazaki</u> Name: Mitsutoshi Miyazaki	<u>27-May-98</u>	<u>Hisashi Kayano</u>
7)	<u>Kunihiro Kodama</u> Name: Kunihiro Kodama	<u>27-May-98</u>	<u>Hisashi Kayano</u>
8)	<u>Toshiji Kondou</u> Name: Toshiji Kondou	<u>28-May-98</u>	<u>Keiji Sakai</u>
9)			
10)			
11)			
12)			
13)			
14)			
15)			

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## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Shigenobu NAKAMURA

3.

5.

7.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

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<input checked="" type="checkbox"/> ASSIGNMENT OF	<input checked="" type="checkbox"/> WHOLE	<input type="checkbox"/> PART INTEREST
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<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE: August 30, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) August 30, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?  YES  NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 <sup>st</sup> INVENTOR if not in item	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item
09/873,410	281269				

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:

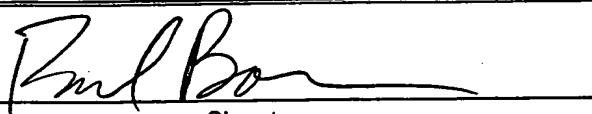
Pillsbury Winthrop LLP  
Intellectual Property Group  
1600 Tysons Boulevard McLean, VA 22102  
Tel: (703) 905-2000

6. NUMBER INVOLVED:  
APPLNS 1 + PATS 0 = TOTAL = 17. AMOUNT OF FEE ENCLOSED: (Code 581)  
ABOVE TOTAL x \$40 = \$40

## 5.5 ATTY DKT:

P 281269	56021/US-SuS-nh	UNDER ORDER NO	30954	281269
MATTER NO.	CLIENT REF.	dup. sheet not required	CLIENT NO.	MATTER NO.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.



Signature

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Attorney: Paul T. Bowen  
Reg. No. 38009  
Atty/Sec: PTB/vaw

Date: October 1, 2001  
TEL: (703) 905-2020  
FAX: (703) 905-2500

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Sole or Joint

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OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Shigenobu NAKAMURA	(2)
	(3)	(4)
	(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)	DENSO CORPORATION 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF  
INVENTION

BRUSHLESS AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A)  even date herewith  
complete (B)  on June 5, 2001  
A, B and/or C (C)  in U.S. Appln. No. / filed /

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall thereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

Shigenobu Nakamura  
Shigenobu NAKAMURA

DATE SIGNED

August 30, 2001

WITNESSES

Hirosi Ishida

1)

Name:

2)

Name:

3)

Name:

4)

Name:

5)

Name: